

# District 11 Mobility Performance Report

2015 Fourth Quarter

**DEPARTMENT OF TRANSPORTATION**

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## District 11 Mobility Performance Report

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### EXECUTIVE SUMMARY

#### Overview

District 11 for Caltrans consists of both the Imperial and San Diego counties. With San Diego having a population of approximately 3,000,000 residents and Imperial County with approximately 180,000 residents. Although, District 11 is composed of these two counties, Imperial County does not report any performance data.

The Mobility Performance quarterly analysis compares information with over a year ago and over last quarter in the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- Detector Health

This information is based on data collected every day of the quarter, twenty-four hours a day, by automated vehicle detector stations deployed on urban-area freeways where congestion is regularly experienced. The MPR presents congestion information at two speed thresholds: delay from vehicles traveling below 35 miles per hour (mph), and delay from vehicles traveling below 60 mph. The delay at the 35 mph threshold represents severe congestion while delay at 60 mph represents all congestion, both light and heavy. These thresholds are set by Caltrans and are based upon engineering experience and District input.

## FINDINGS

In the fourth quarter, the total delay equaled 2.9 million vehicle hours of delay (VHD) at the 35 mph speed threshold, and 6.03 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 45 thousand VHD at 35 mph, and 90 thousand VHD at 60 mph.

### Top Ten Bottlenecks for the Quarter 4

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
I805-S	At I715	PM	14.702	14.851	59	6.7	156,842	8,225
SR78-E	Twin Oaks Valley Rd	PM	13.018	13.022	60	4.0	111,979	11,420
I5-N	Cannon Rd	PM	47.995	R48.104	60	3.2	81,156	9,515
I5-S	5 S N/O VISTA VIEW	AM	39.059	R39.201	53	6.7	75,314	5,455
I805-N	At I715	AM	14.701	14.85	55	3.5	73,211	6,450
I5-S	Mission Bay Dr	PM	22.85	R22.959	48	4.3	64,905	5,080
SR163-S	Robinson Ave	PM	1.892	2.49	55	4.3	61,603	7,390
SR52-E	52 EB E/O Santo Rd	PM	9.271	9.271	49	4.5	60,006	6,585
I805-N	805 NB S/O 52	AM	23.111	23.26	41	3.4	59,281	6,270
I5-S	5th Ave	PM	16.001	R16.11	58	2.7	56,922	6,615

## Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table><tr><th>Quarter</th><th>VMT (Billions)</th></tr><tr><td>2014 Q4</td><td>3.43</td></tr><tr><td>2015 Q3</td><td>3.61</td></tr><tr><td>2015 Q4</td><td>3.44</td></tr></table>	Quarter	VMT (Billions)	2014 Q4	3.43	2015 Q3	3.61	2015 Q4	3.44	Over one year ago	Over last quarter
		Quarter	VMT (Billions)								
2014 Q4	3.43										
2015 Q3	3.61										
2015 Q4	3.44										
		0.3% ↑	-4.6% ↓								
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table><tr><th>Quarter</th><th>VHD (Millions)</th></tr><tr><td>2014 Q4</td><td>2.2</td></tr><tr><td>2015 Q3</td><td>2.7</td></tr><tr><td>2015 Q4</td><td>2.9</td></tr></table>	Quarter	VHD (Millions)	2014 Q4	2.2	2015 Q3	2.7	2015 Q4	2.9	Over one year ago	Over last quarter
		Quarter	VHD (Millions)								
2014 Q4	2.2										
2015 Q3	2.7										
2015 Q4	2.9										
		36% ↑	8% ↑								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table><tr><th>Quarter</th><th>VHD (Thousands)</th></tr><tr><td>2014 Q4</td><td>32</td></tr><tr><td>2015 Q3</td><td>37</td></tr><tr><td>2015 Q4</td><td>45</td></tr></table>	Quarter	VHD (Thousands)	2014 Q4	32	2015 Q3	37	2015 Q4	45	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
2014 Q4	32										
2015 Q3	37										
2015 Q4	45										
		38% ↑	19% ↑								
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table><tr><th>Quarter</th><th>VHD (Millions)</th></tr><tr><td>2014 Q4</td><td>4.84</td></tr><tr><td>2015 Q3</td><td>5.9</td></tr><tr><td>2015 Q4</td><td>6.03</td></tr></table>	Quarter	VHD (Millions)	2014 Q4	4.84	2015 Q3	5.9	2015 Q4	6.03	Over one year ago	Over last quarter
		Quarter	VHD (Millions)								
2014 Q4	4.84										
2015 Q3	5.9										
2015 Q4	6.03										
		24.5% ↑	2.2% ↑								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table><tr><th>Quarter</th><th>VHD (Thousands)</th></tr><tr><td>2014 Q4</td><td>71</td></tr><tr><td>2015 Q3</td><td>80</td></tr><tr><td>2015 Q4</td><td>90</td></tr></table>	Quarter	VHD (Thousands)	2014 Q4	71	2015 Q3	80	2015 Q4	90	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
2014 Q4	71										
2015 Q3	80										
2015 Q4	90										
		27% ↑	12% ↑								

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		–	Saturday -44%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Friday 35%	Monday 22%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		11 PM -50%	10 PM -74%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 51%	7 AM 50%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		6 PM -54%	2 PM -69%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		7 AM 883.1%	7 AM 410%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		6 PM -28%	2 PM -75%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		4 PM 47%	7 AM 772%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph	<p>Hours (Millions)</p> <p>2014 Q4 2015 Q3 2015 Q4</p> <p>San Diego</p>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		—	—
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		San Diego 36% ↑	San Diego 8% ↑
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph	<p>Miles</p> <p>2014 Q4 2015 Q3 2015 Q4</p> <p>AM Peak (6 AM to 10 AM) Off-Peak Day (10 AM to 3 PM) PM Peak (3 PM to 7 PM) Off-Peak Night (7 PM to 6 AM)</p>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Off-Peak Night -16% ↓	Off-Peak Day -14% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		PM Peak 168% ↑	PM Peak 17% ↑
Average Number of Good and Bad Detectors	<p>Number of Detectors</p> <p>Average of Good Average of Bad</p> <p>2014 Q4 2015 Q3 2015 Q4</p>	Change in Good over one year ago	Change in Good over last quarter
		5% ↑	-1% ↓
		Change in Bad over one year ago	Change in Bad over last quarter
		-47% ↓	-16.0% ↓

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2015 Q4-2014 Q4		Difference 2015 Q4-2015 Q3		Rank		
		2014 Q4	2015 Q3	2015 Q4	Absolute	Percentage	Absolute	Percentage	2014 Q4	2015 Q3	2015 Q4
I5	San Diego	718,581	1,057,657	928,766	210,186	29%	-128,891	-12%	1	1	1
I15	San Diego	261,803	364,063	536,895	275,092	105%	172,832	47%	3	3	2
I805	San Diego	547,545	520,239	527,221	-20,325	-4%	6,981	1%	2	2	3
SR78	San Diego	184,357	189,384	238,391	54,034	29%	49,007	26%	4	4	4
I8	San Diego	110,720	162,613	184,098	73,378	66%	21,486	13%	5	5	5
SR52	San Diego	57,539	107,686	143,005	85,467	149%	35,320	33%	9	6	6
SR125	San Diego	86,932	105,323	130,004	43,072	50%	24,682	23%	7	7	7
SR163	San Diego	92,772	97,223	108,365	15,593	17%	11,142	11%	6	8	8
SR56	San Diego	41,783	63,138	71,636	29,853	71%	8,497	13%	10	9	9
SR94	San Diego	60,051	44,472	68,670	8,619	14%	24,198	54%	8	10	10
I905	San Diego	3,141	2,147	3,500	359	11%	1,354	63%	12	12	11
SR54	San Diego	6,350	22,970	2,200	-4,150	-65%	-20,771	-90%	11	11	12
<b>TOTALS</b>		<b>2,171,572</b>	<b>2,736,914</b>	<b>2,942,751</b>	<b>771,178</b>	<b>36%</b>	<b>205,836</b>	<b>8%</b>			